

Hunt

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NOV 01 2000

1642

TECH CENTER 1600/2500

p#4

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/602,812A
DATE: 10/25/2000
TIME: 17:29:51

Input Set : A:\P1467R2.txt
Output Set: N:\CRF3\10252000\I602812A.raw

3 <110> APPLICANT: Adams, Camellia W.
4 Presta, Leonard G.
5 Sliwkowski, Mark X.
7 <120> TITLE OF INVENTION: Humanized Anti-ErbB2 Antibodies and Treatment with
8 Anti-ErbB2 Antibodies
10 <130> FILE REFERENCE: P1467R2
12 <140> CURRENT APPLICATION NUMBER: US/09/602,812A
12 <141> CURRENT FILING DATE: 2000-06-23
14 <150> PRIOR APPLICATION NUMBER: US 60/141,316
15 <151> PRIOR FILING DATE: 1999-06-25
17 <160> NUMBER OF SEQ ID NOS: 13
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 107
21 <212> TYPE: PRT
22 <213> ORGANISM: Mus Musculus
24 <400> SEQUENCE: 1
25 Asp Thr Val Met Thr Gln Ser His Lys Ile Met Ser Thr Ser Val
26 1 5 10 15
28 Gly Asp Arg Val Ser Ile Thr Cys Lys Ala Ser Gln Asp Val Ser
29 20 25 30
31 Ile Gly Val Ala Trp Tyr Gln Gln Arg Pro Gly Gln Ser Pro Lys
32 35 40 45
34 Leu Leu Ile Tyr Ser Ala Ser Tyr Arg Tyr Thr Gly Val Pro Asp
35 50 55 60
37 Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr Ile
38 65 70 75
40 Ser Ser Val Gln Ala Glu Asp Leu Ala Val Tyr Tyr Cys Gln Gln
41 80 85 90
43 Tyr Tyr Ile Tyr Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu
44 95 100 105
46 Ile Lys
49 <210> SEQ ID NO: 2
50 <211> LENGTH: 119
51 <212> TYPE: PRT
52 <213> ORGANISM: Mus musculus
54 <400> SEQUENCE: 2
55 Glu Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys Pro Gly
56 1 5 10 15
58 Thr Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Phe Thr Phe Thr
59 20 25 30
61 Asp Tyr Thr Met Asp Trp Val Lys Gln Ser His Gly Lys Ser Leu
62 35 40 45
64 Glu Trp Ile Gly Asp Val Asn Pro Asn Ser Gly Gly Ser Ile Tyr
65 50 55 60
67 Asn Gln Arg Phe Lys Gly Lys Ala Ser Leu Thr Val Asp Arg Ser
68 65 70 75
70 Ser Arg Ile Val Tyr Met Glu Leu Arg Ser Leu Thr Phe Glu Asp

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71           80           85           90
73 Thr Ala Val Tyr Tyr Cys Ala Arg Asn Leu Gly Pro Ser Phe Tyr
74           95           100          105
76 Phe Asp Tyr Trp Gly Gln Gly Thr Thr Leu Thr Val Ser Ser
77           110          115
79 <210> SEQ ID NO: 3
80 <211> LENGTH: 107
81 <212> TYPE: PRT
82 <213> ORGANISM: Artificial sequence
84 <220> FEATURE:
85 <223> OTHER INFORMATION: humanized VL sequence
87 <400> SEQUENCE: 3
88 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
89   1           5           10          15
91 Gly Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asp Val Ser
92           20           25           30
94 Ile Gly Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys
95           35           40           45
97 Leu Leu Ile Tyr Ser Ala Ser Tyr Arg Tyr Thr Gly Val Pro Ser
98           50           55           60
100 Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
101           65           70           75
103 Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln
104           80           85           90
106 Tyr Tyr Ile Tyr Pro Tyr Thr Phe Gly Gln Gly Thr Lys Val Glu
107           95           100          105
109 Ile Lys
112 <210> SEQ ID NO: 4
113 <211> LENGTH: 119
114 <212> TYPE: PRT
115 <213> ORGANISM: Artificial sequence
117 <220> FEATURE:
118 <223> OTHER INFORMATION: Humanized VH sequence
120 <400> SEQUENCE: 4
121 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
122   1           5           10          15
124 Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Thr
125           20           25           30
127 Asp Tyr Thr Met Asp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
128           35           40           45
130 Glu Trp Val Ala Asp Val Asn Pro Asn Ser Gly Gly Ser Ile Tyr
131           50           55           60
133 Asn Gln Arg Phe Lys Gly Arg Phe Thr Leu Ser Val Asp Arg Ser
134           65           70           75
136 Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp
137           80           85           90
139 Thr Ala Val Tyr Tyr Cys Ala Arg Asn Leu Gly Pro Ser Phe Tyr
140           95           100          105
142 Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser

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143                               110                               115
145 <210> SEQ ID NO: 5
146 <211> LENGTH: 107
147 <212> TYPE: PRT
148 <213> ORGANISM: Artificial sequence
150 <220> FEATURE:
151 <223> OTHER INFORMATION: light chain consensus sequence
153 <400> SEQUENCE: 5
154 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
155   1                               5                               10                               15
157 Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser
158   20                               25                               30
160 Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys
161   35                               40                               45
163 Leu Leu Ile Tyr Ala Ala Ser Ser Leu Glu Ser Gly Val Pro Ser
164   50                               55                               60
166 Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
167   65                               70                               75
169 Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln
170   80                               85                               90
172 Tyr Asn Ser Leu Pro Trp Thr Phe Gly Gln Gly Thr Lys Val Glu
173   95                               100                              105
175 Ile Lys
178 <210> SEQ ID NO: 6
179 <211> LENGTH: 119
180 <212> TYPE: PRT
181 <213> ORGANISM: Artificial sequence
183 <220> FEATURE:
184 <223> OTHER INFORMATION: heavy chain consensus sequence
186 <400> SEQUENCE: 6
187 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
188   1                               5                               10                               15
190 Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser
191   20                               25                               30
193 Ser Tyr Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
194   35                               40                               45
196 Glu Trp Val Ala Val Ile Ser Gly Asp Gly Gly Ser Thr Tyr Tyr
197   50                               55                               60
199 Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser
200   65                               70                               75
202 Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp
203   80                               85                               90
205 Thr Ala Val Tyr Tyr Cys Ala Arg Gly Arg Val Gly Tyr Ser Leu
206   95                               100                              105
208 Tyr Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
209   110                              115
211 <210> SEQ ID NO: 7
212 <211> LENGTH: 10
213 <212> TYPE: PRT

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214 <213> ORGANISM: Mus musculus
216 <220> FEATURE:
217 <221> NAME/KEY: unsure
218 <222> LOCATION: 10
219 <223> OTHER INFORMATION: unknown amino acid
221 <400> SEQUENCE: 7
W--> 222 Gly Phe Thr Phe Thr Asp Tyr Thr Met Xaa
      223   1           5           10
225 <210> SEQ ID NO: 8
226 <211> LENGTH: 17
227 <212> TYPE: PRT
228 <213> ORGANISM: Mus musculus
230 <400> SEQUENCE: 8
231 Asp Val Asn Pro Asn Ser Gly Gly Ser Ile Tyr Asn Gln Arg Phe
232   1           5           10           15
234 Lys Gly
237 <210> SEQ ID NO: 9
238 <211> LENGTH: 10
239 <212> TYPE: PRT
240 <213> ORGANISM: Mus musculus
242 <400> SEQUENCE: 9
243 Asn Leu Gly Pro Ser Phe Tyr Phe Asp Tyr
244   1           5           10
246 <210> SEQ ID NO: 10
247 <211> LENGTH: 11
248 <212> TYPE: PRT
249 <213> ORGANISM: Mus musculus
251 <400> SEQUENCE: 10
252 Lys Ala Ser Gln Asp Val Ser Ile Gly Val Ala
253   1           5           10
255 <210> SEQ ID NO: 11
256 <211> LENGTH: 7
257 <212> TYPE: PRT
258 <213> ORGANISM: Mus musculus
260 <220> FEATURE:
261 <221> NAME/KEY: unsure
262 <222> LOCATION: 5-7
263 <223> OTHER INFORMATION: unknown amino acid
265 <400> SEQUENCE: 11
W--> 266 Ser Ala Ser Tyr Xaa Xaa Xaa
      267   1           5
269 <210> SEQ ID NO: 12
270 <211> LENGTH: 9
271 <212> TYPE: PRT
272 <213> ORGANISM: Mus musculus
274 <400> SEQUENCE: 12
275 Gln Gln Tyr Tyr Ile Tyr Pro Tyr Thr
276   1           5
278 <210> SEQ ID NO: 13

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VERIFICATION SUMMARY

DATE: 10/25/2000

PATENT APPLICATION: US/09/602,812A

TIME: 17:29:52

Input Set : A:\P1467R2.txt

Output Set: N:\CRF3\10252000\I602812A.raw

L:12 M:282 W: Numeric Field Identifier Missing, <140> CURRENT APPLICATION NUMBER: is Added.

L:222 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7

L:266 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11



Creation date: 05-08-2004
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Legal Date: 01-29-2001

No.	Doccode	Number of pages
1	IDS	1
2	NPL	1

Total number of pages: 2

Remarks:

Order of re-scan issued on